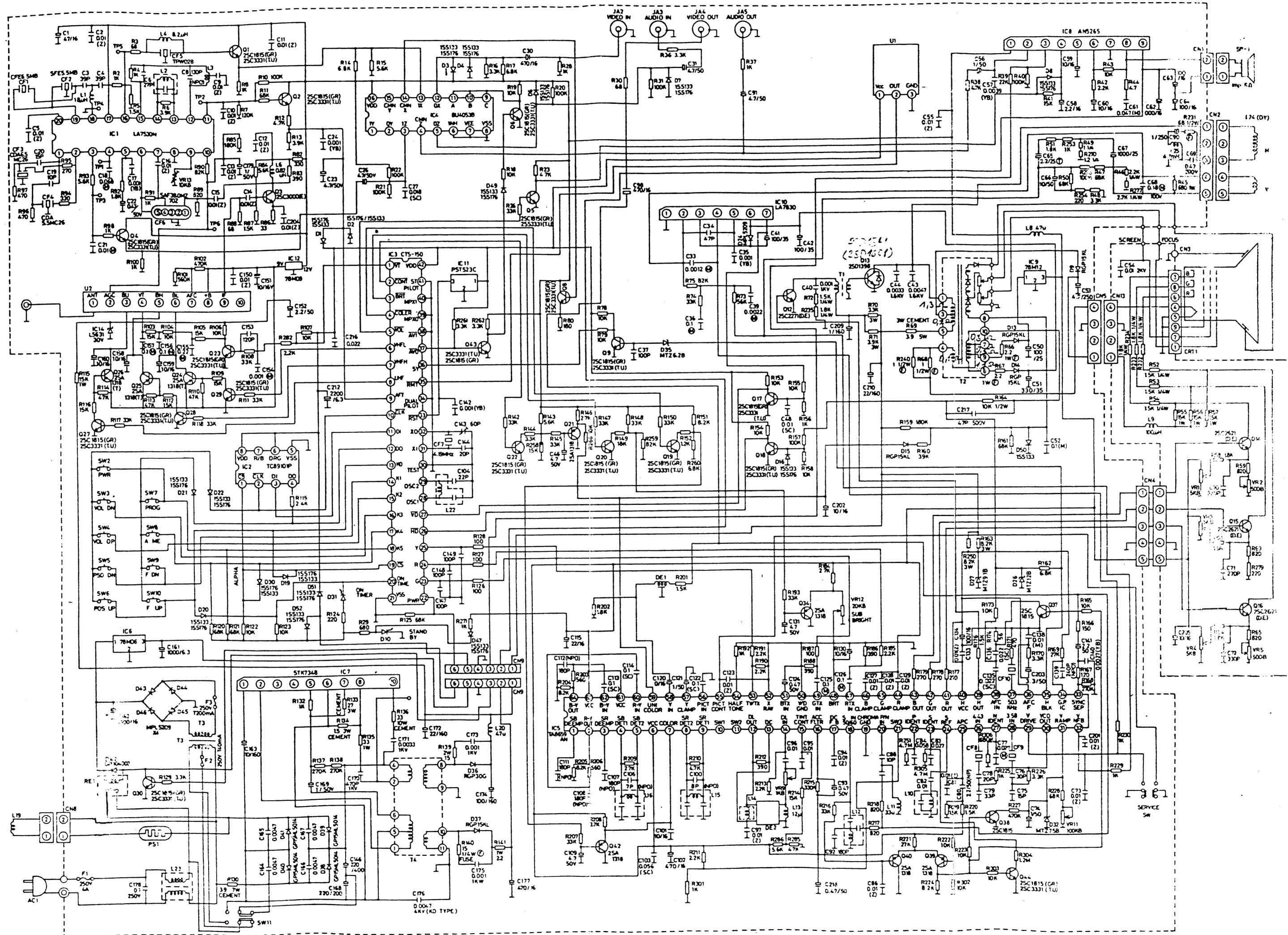
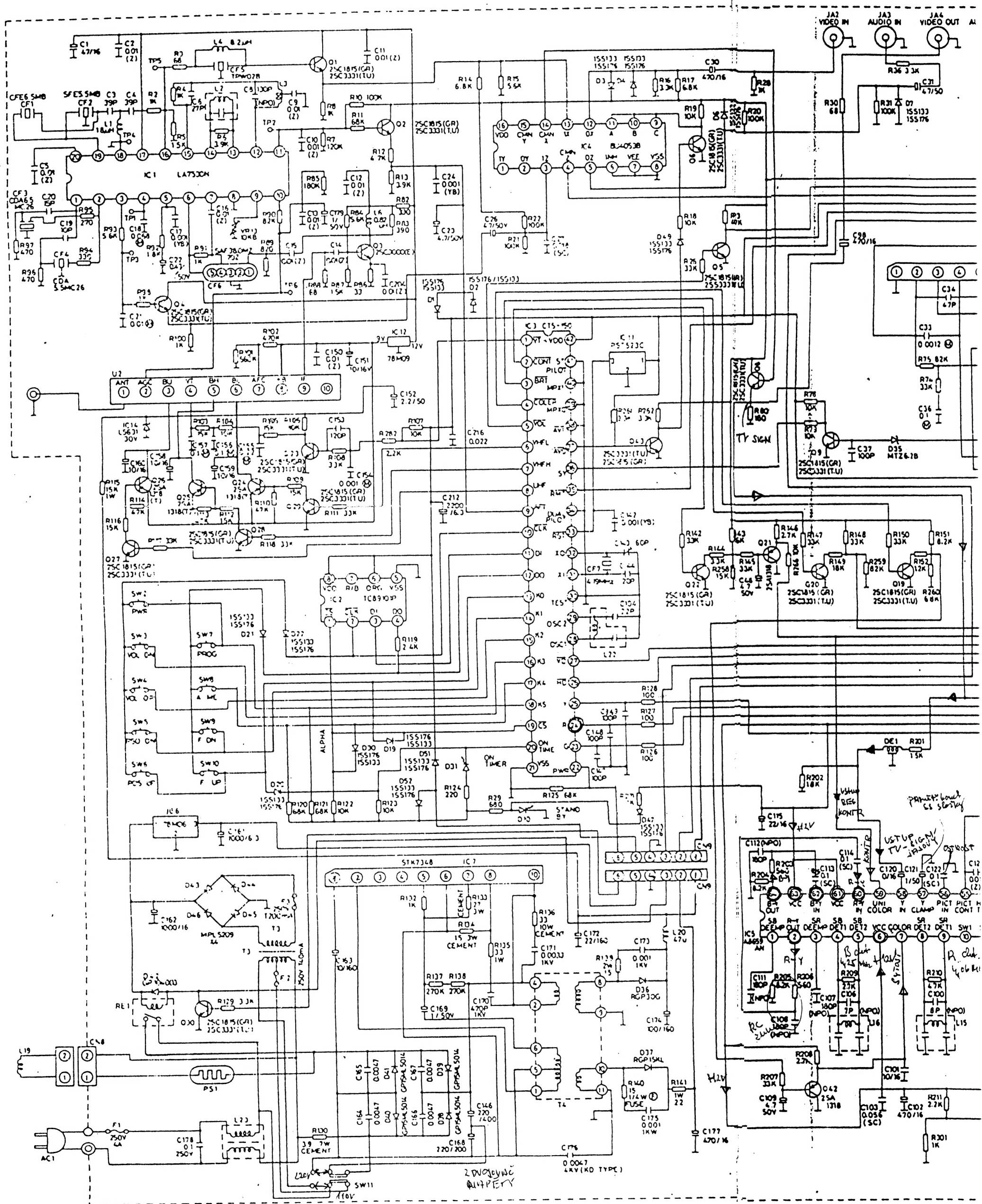


SCHEMATIC DIAGRAM

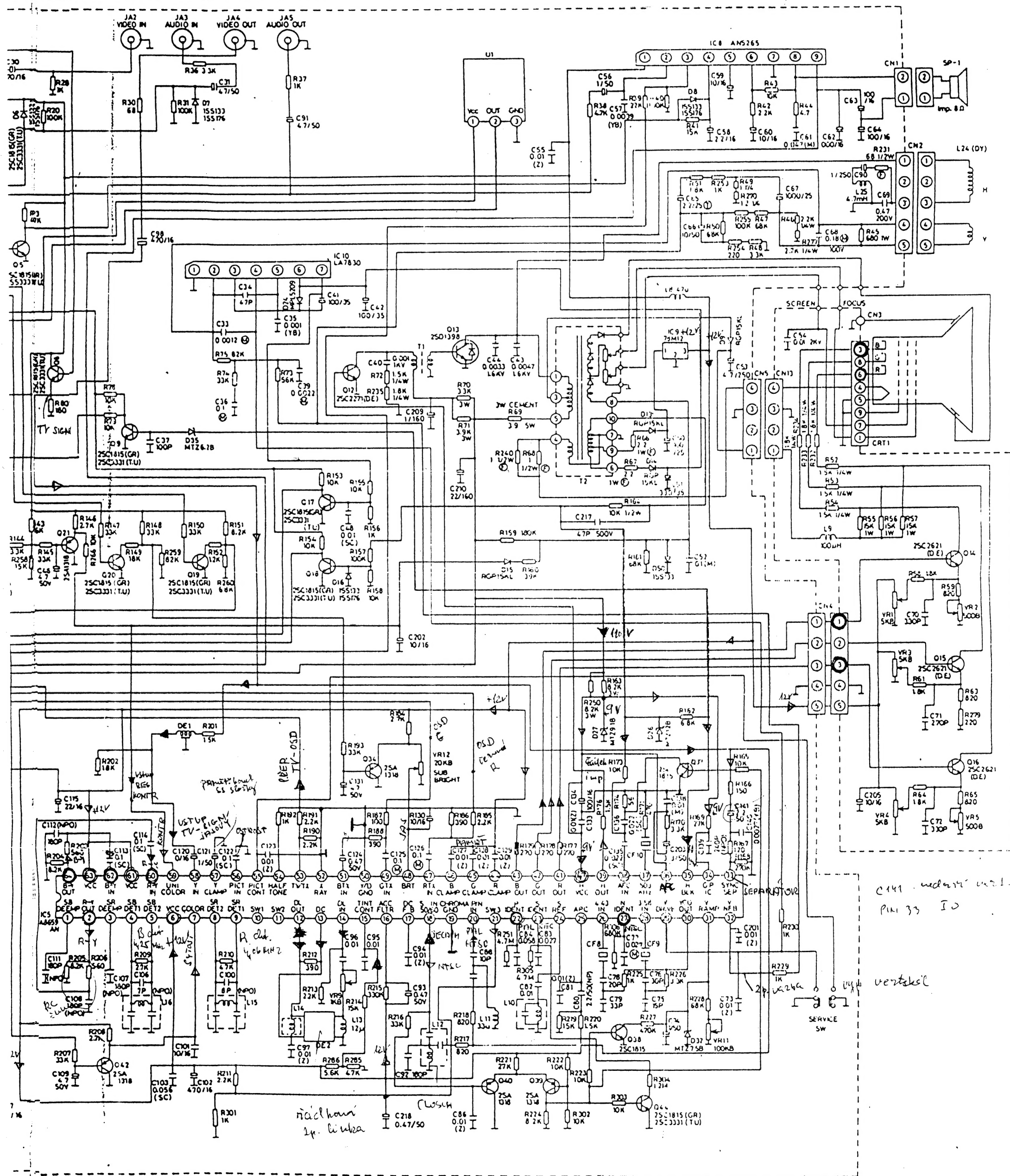
MK II



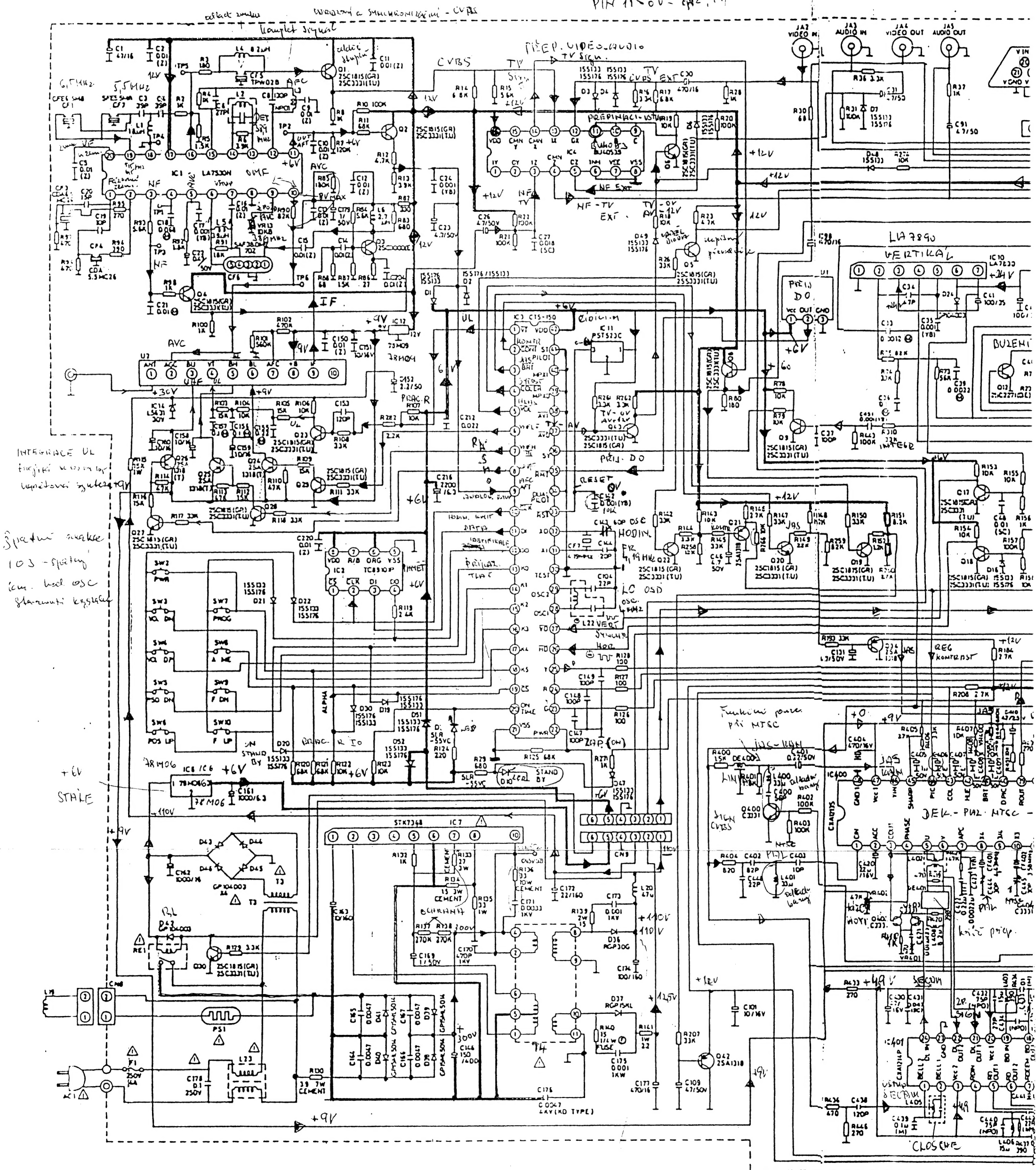
SCHEMATIC DIAGR



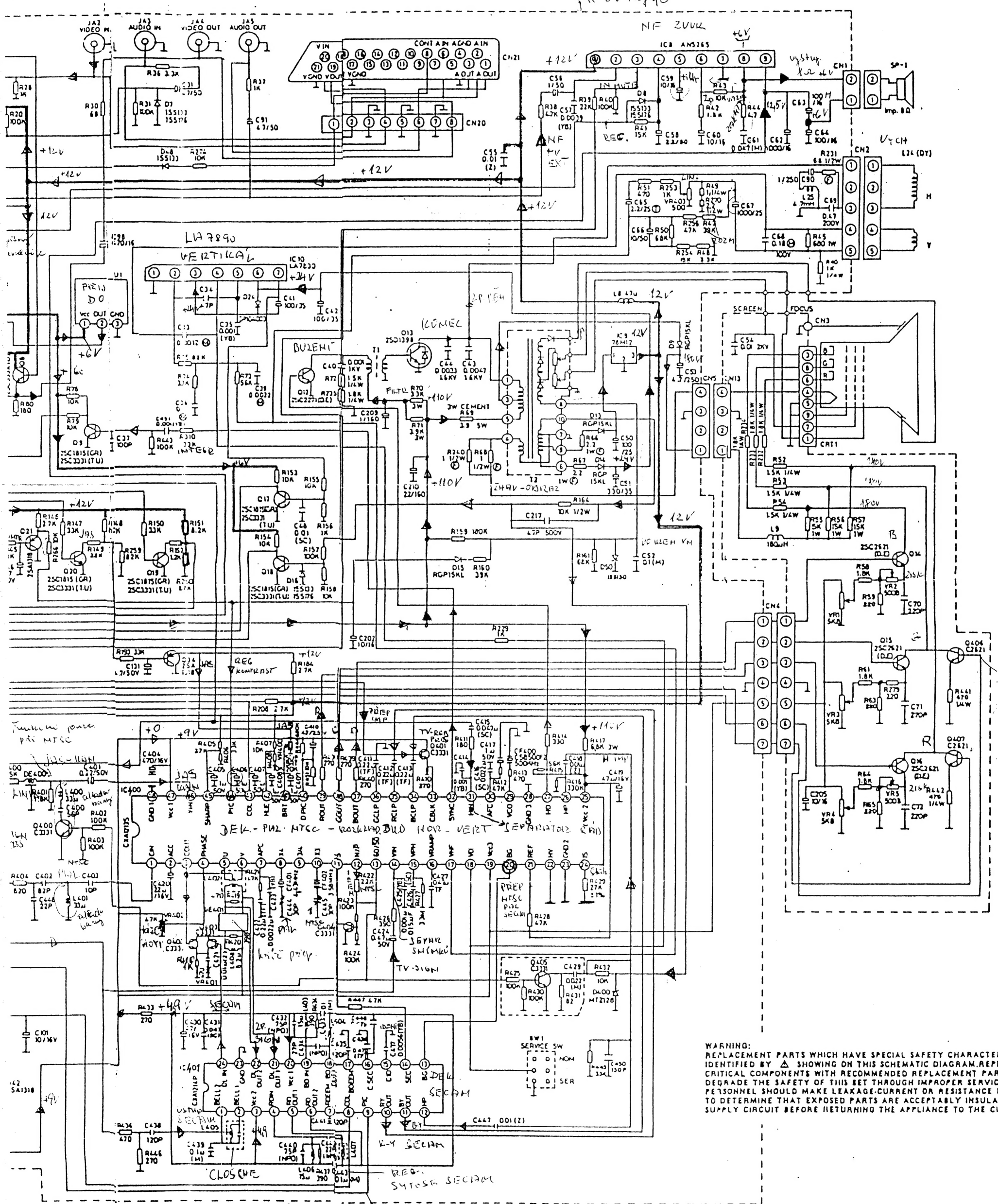
FUNAI



IO4 42V Sp. 13 / přepínání
PIN 11 - 0V - 42, 14



+V MOE
for CV + usgjc



WARNING:
REPLACEMENT PARTS WHICH HAVE SPECIAL SAFETY CHARACTERISTICS ARE IDENTIFIED BY Δ SHOWING ON THIS SCHEMATIC DIAGRAM. REPLACE THESE CRITICAL COMPONENTS WITH RECOMMENDED REPLACEMENT PARTS. DON'T DEGRADE THE SAFETY OF THIS SET THROUGH IMPROPER SERVICING. SERVICE PERSONNEL SHOULD MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

VOLTAGE CHART

Input Signal : Color bar signal
Tone Volume : MAX

(Unit : Volt)

	E	C	B
Q1	4.83	11.94	5.48
Q2	6.08	11.94	6.53
Q3	503m	6.66	1.26
Q4	3.68	11.94	4.3
Q5	0	11.25	59m
Q6	0	12m	660m
Q8	3.12	11.94	3.77
Q9	0	4.68	134m
Q12	0	55	421m
Q13	0	113.7	-118m
Q14	3.04	163.6	3.46
Q15	2.87	157.4	3.35
Q16	2.89	160.5	3.36
Q17	0	4.69	315m
Q18	0	4.33	-125m
Q19	0	2.32	247m
Q20	0	1.65	438m
Q21	3.80	0	3.13
Q22	0	1.35	487m
Q23	0	23	104m
Q24	9.22	9.12	8.48m
Q25	9.22	0	9.14
Q26	9.23	0	9.14
Q27	0	9.11	0
Q28	0	9.11	0
Q29	0	13m	634m
Q30	0	104m	789m
Q34	5.49	0	4.82
Q35	663m	0	27m
Q36	664m	0	29m
Q37	P/S	0	0
	NTSC	0	0.6
Q38	P/S	0	6.0
	NTSC	0	0.6
Q39	P/S	5.0	6.0
	NTSC	6.5	6.0
Q40	P/S	5.0	4.5
	NTSC	6.5	7.4
Q42	3.88	0	3.21
Q43	0	9.98	68m
Q44	P/S	0	0
	NTSC	0	0.6

NOTES :
P/SPAL or SECAM system
NTSCNTSC system

(Unit : Volt)

	IC1	IC2	IC3	IC4
1	5.63	5.19	984m	-
2	4.62	3.47	2.84	-
3	4.27	3.47	2.84	5.86
4	7.43	3.47	1.30	5.90
5	7.02	0	82m	5.83
6	4.36	5.20	5.20	0
7	4.36	5.20	2m	0
8	0	5.20	2m	0
9	1.52		2.84	15m
10	8.53		3.48	15m
11	6.90		3.48	15m
12	3.89		3.48	3.77
13	8.48		5.11	4.38
14	8.47		5.13	3.77
15	3.89		5.12	723m
16	5.47		5.12	11.94
17	11.96		5.09	
18	0		5.13	
19	2.94		5.19	
20	2.95		5.19	
21			0	
22			5.05	
23			1m	
24			1m	
25			1m	
26			4.34	
27			4.70	
28			3.04	
29			3.05	
30			0	

(Unit : Volt)

	IC3
31	(2.28)
32	2.57
33	5.03
34	0
35	5.18
36	4.68
37	68m
38	0
39	0
40	0
41	0
42	5.22

IC400 [V]

	PAL	SECAM	NTSC
1	2.8	2.8	2.8
2	6.0	6.3	5.9
3	6.0	0.1	6.0
4	4.7	0.4	4.7
5	6.0	0.1	6.0
6	6.0	0.1	6.0
7	6.9	6.5	6.9
8	4.5	4.5	4.5
9	0.2	AC3.1	5.7
10	4.5	4.5	4.5
11	0.1	3.5	3.4
12	0.0	0.0	3.4
13	0.0	0.0	3.4
14	2.0	2.1	2.0
15	3.2	3.1	3.3
16	5.1	5.2	5.2
17	3.0	3.0	3.0
18	1.0	0.9	0.9
19	9.1	9.1	9.2
20	0.2	0.2	0.2
21	9.0	9.0	9.0
22	0.0	0.0	0.0
23	0.0	0.0	0.0
24	2.2	2.2	2.2
25	9.0	9.0	9.0
26	3.6	3.6	3.6
27	0.5	0.5	0.5
28	0.0	0.0	0.0
29	4.3	4.3	4.3
30	5.2	5.2	5.2
31	2.9	2.9	2.9
32	0.6	0.6	0.6
33	0.6	0.5	0.5
34	6.3	6.1	6.3
35	6.3	6.0	6.3
36	5.8	5.9	5.9
37	2.0	2.2	2.1
38	2.0	2.1	2.1
39	2.0	2.0	2.1
40	4.0	4.0	4.0
41	4.6	4.6	4.6
42	5.7	5.7	5.7
43	3.4	3.4	3.4
44	4.0	3.8	3.8
45	2.2	2.2	2.2
46	6.3	6.4	6.4
47	9.1	9.1	9.1
48	0.0	0.0	0.0

IC401 [V]

	PAL	SECAM	NTSC
1	2.5	2.5	2.5
2	2.5	2.5	2.5
3	4.9	4.9	4.9
4	4.9	4.9	4.9
5	1.7	1.7	1.7
6	1.7	1.7	1.7
7	2.5	2.5	2.5
8	3.4	3.4	3.4
9	3.9	3.8	3.8
10	2.7	2.6	2.7
11	2.7	2.7	2.7
12	1.7	1.7	1.7
13	0.2	0.2	0.2
14	0.1	3.9	0.1
15	2.1	2.0	2.1
16	3.7	2.7	3.6
17	2.3	2.3	2.3
18	1.7	1.7	1.7
19	4.9	4.9	4.9
20	4.9	4.9	4.9
21	2.5	2.5	2.5
22	2.5	2.5	2.5
23	0.0	0.0	0.0
24	2.5	2.5	2.5

P: PAL, S: SECAM, N: NTSC

		E	C	B
Q14	P	1.7	173.4	2.0
	S	1.9	168.2	2.2
	N	1.8	171.1	2.0
Q15	P	1.7	170.2	2.0
	S	1.7	170.0	2.0
	N	1.8	167.7	2.1
Q16	P	1.8	177.0	2.0
	S	1.7	177.4	2.0
	N	1.9	173.0	2.1
Q34	P	9.8	0.0	9.2
	S	9.6	0.0	9.2
	N	9.8	0.0	9.2
Q42	P	3.4	0.0	2.7
	S	3.4	0.0	2.7
	N	3.4	0.0	2.7
Q400	P	0.0	0.5	0.0
	S	0.0	0.5	0.0
	N	0.0	0.0	0.6
Q401	P	0.5	11.7	0.0
	S	0.6	11.7	0.0
	N	0.5	11.7	0.0
Q402	P	5.3	9.1	6.0
	S	1.9	9.1	0.1
	N	5.3	9.1	6.0
Q403	P	5.3	9.1	2.5
	S	1.9	9.1	2.5
	N	5.3	9.1	2.5
Q404	P	0.0	0.1	0.0
	S	0.0	3.5	0.0
	N	0.0	0.1	0.6
Q405	P	0.0	0.0	0.0
	S	0.0	0.0	0.0
	N	0.0	0.0	0.6
Q406	P	0.0	170.2	0.0
	S	0.0	169.8	0.0
	N	0.0	167.6	0.0
Q407	P	0.0	176.9	0.0
	S	0.0	177.2	0.0
	N	0.0	172.9	0.0

VOLTAGE CHARTS

Input Signal, :Color bar signal
Tone Volume, :Max

(Unit: Volt)

	E	C	B
Q1	4.83	11.94	5.48
Q2	6.08	11.94	6.53
Q3	508m	6.66	1.26
Q4	3.68	11.94	4.3
Q5	0	11.25	59m
Q6	0	12m	660m
Q8	3.12	11.94	3.77
Q9	0	4.68	134m
Q12	0	55	421m
Q13	0	113.7	-118m
Q17	0	4.69	315m
Q18	0	4.33	-125m
Q19	0	2.32	247m
Q20	0	1.65	488m
Q21	3.80	0	3.13
Q22	0	1.36	487m
Q23	0	23	104m
Q24	9.22	9.12	8.48m
Q25	9.22	0	9.14
Q26	9.23	0	9.14
Q27	0	9.11	0
Q28	0	9.11	0
Q29	0	13m	634m
Q30	0	104m	789m
Q35	663m	0	27m
Q36	664m	0	29m
Q43	0	9.98	68m

(Unit: Volt)

IC1	IC2	IC3	IC4	
1	5.63	5.19	984m	-
2	4.62	3.47	2.84	-
3	4.27	3.47	2.84	5.86
4	7.43	3.47	1.30	5.90
5	7.02	0	82m	5.89
6	4.36	5.20	5.20	0
7	4.36	5.20	2m	0
8	0	5.20	2m	0
9	1.52		2.84	15m
10	8.53		3.46	15m
11	6.90		3.48	15m
12	3.89		3.48	3.77
13	8.48		5.11	4.33
14	8.47		5.13	3.77
15	3.89		5.12	723m
16	5.47		5.12	11.94
17	11.96		5.09	
18	0		5.13	
19	2.94		5.19	
20	2.95		5.19	
21			0	
22			5.05	
23			1m	
24			1m	
25			1m	
26			4.34	
27			4.70	
28			3.04	
29			3.05	
30			0	

(Unit: Volt)

	IC6	IC7	IC8	IC9
1	11.21	3.98	11.54	15.95
2	0	491m	5.31	0
3	5.96	-168m	49m	11.98
4		3.28	11.39	
5		-1.06	5.52	
6		0	5.67	
7		252m	0	
8		328m	5.43	
9		-	12.15	
10		298		

(Unit: Volt)

	IC10	IC11	IC12
1	-1.39	5.23	11.95
2	13.93	0	0
3	24.9	5.04	9.23
4	-548m		
5	-564m		
6	24.4		
7	230m		
8			
9			
10			

(Unit: Volt)

	IC3
31	(2.28)
32	2.57
33	5.03
34	0
35	5.18
36	4.68
37	63m
38	0
39	0
40	0
41	0
42	5.22

(Unit: Volt)

	IC14
1	0
2	32

(Unit : Volt)

	IC 5	
	PAL/SECAM	NTSC
1	8.7	8.7
2	8.0	8.0
3	8.7	8.7
4	6.5	6.5
5	6.5	6.5
6	12.0	12.0
7	4.1	4.1
8	6.5	6.5
9	6.5	6.5
10	6.0	0
11	6.0	6.0
12	5.2	5.2
13	5.2	5.2
14	8.0	8.0
15	8.9	8.9
16	10.5	10.5
17	3.4	3.4
18	4.5	7.4
19	0	0
20	5.9	5.9
21	3.7	3.7
22	11.5	11.5
23	5.3	5.3
24	5.7	5.7
25	5.9	5.9
26	3.2	3.2
27	9.7	9.7
28	3.2	3.2
29	0.9	0.9
30	9.1	9.1
31	6.4	6.4
32	6.3	6.3

	IC 5	
	PAL/SECAM	NTSC
33	6.6	6.6
34	3.7	3.7
35	0.7	0.7
36	7.4	7.4
37	-	-
38	6.8	6.8
39	2.2	2.2
40	9.0	9.0
41	3.2	3.2
42	3.2	3.2
43	3.2	3.2
44	3.2	3.2
45	3.3	3.3
46	3.2	3.2
47	6.7	6.7
48	3.4	3.4
49	6.9	6.9
50	0	0
51	6.6	6.6
52	0	0
53	0	0
54	0	0
55	5.6	5.6
56	3.2	3.2
57	5.5	5.5
58	4.8	4.8
59	3.3	3.3
60	6.2	6.2
61	12.0	12.0
62	6.2	6.2
63	12.0	12.0
64	8.0	8.0

(Unit : Volt)

	IC6	IC7	IC8	IC9
1	11.21	3.98	11.94	15.95
2	0	491m	5.31	0
3	5.96	-168m	49m	11.93
4		3.28	11.39	
5		-1.06	5.52	
6		0	5.67	
7		252m	0	
8		328m	5.73	
9		-	12.15	
10		298		

(Unit : Volt)

	IC10	IC11	IC12
1	-1.39	5.23	11.95
2	13.93	0	0
3	24.9	5.04	9.23
4	-548m		
5	-564m		
6	24.4		
7	230m		
8			
9			
10			

(Unit : Volt)

	IC14
1	0
2	32